

one other one of the cam followers by automatically releasing the anvil assembly from the apparatus after the spreading pins have spread the ring portion.

**29.** The apparatus of claim 24, wherein the first organ is a blood vessel having a sidewall, the orifice is an incision in the sidewall, and the cam-driven assembly includes:

at least one incision-lengthening blade, wherein the cam-driven assembly is configured to respond to motion of at least one other one of the cam followers by causing the elements to advance the incision-lengthening blade distally into engagement with the sidewall to extend the incision, thereby forming an extended incision of precisely known overall length, at a time after the tips of the tines have pierced said tissue but before the tines have been advanced into engagement with the anvil.

**30.** The apparatus of claim 23, wherein the cam element is a plate having openings that extend therethrough, said openings defining the cam tracks.

**31.** The apparatus of claim 22, also including an anvil having a stem, wherein the anvil mounting assembly releasably holds the stem such that the anvil is positioned to be advanced into the first organ.

**32.** The apparatus of claim 31, wherein the ring has a first number of tines, and the anvil has a surface which defines said first number of recesses, each of the recesses being shaped and positioned to receive and curl a different one of the tines when said tines are advanced into engagement with said anvil.

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